

***NATIONAL WEATHER SERVICE ALASKA REGION SUPPLEMENT 04-2002  
APPLICABLE TO NWSI 10-310  
JANUARY 7, 2003***

***Operations and Services  
Marine and Coastal Weather Services, NWSPD 10-3  
Coastal Marine Forecast Services, NWSI 10-310***

***ALASKA COASTAL MARINE FORECAST SERVICES***

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**NOTICE:** This publication is available at: <http://www.nws.noaa.gov/directives/>.

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**OPR:** W/AR1x2 (A. Devaris)

**Certified by:** W/AR1 (J. Partain)

**Type of Issuance:** Initial

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***SUMMARY OF REVISIONS:*** This supplement supercedes Regional Operations Manual Letter (ROML) A-10-99, "Marine Services Program," dated November 9, 1999, filed with Weather Service Operations Manual (WSOM) Chapter D-51. The following Instruction Memorandums filed with ROML A-10-99 are also superseded: AR-00-01 dated 1/10/00, AR-00-02 dated 2/1/00, AR-00-03 dated 4/4/00, AR-00-08 dated 8/9/00, AR-01-01 dated 1/17/01, and AR-01-03 dated 4/16/01.

The section numbers in this supplement refer to the section numbers in Instruction 10-310.

<u>Signed by Laura K. Furgione for</u>	<u>12/24/02</u>
Richard C. Przywarty	Date
Regional Director	

Alaska Coastal Marine Forecast Services

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1. Purpose. The coastal marine forecast service procedures in the Alaska Region are described to augment the procedures in NWS Instruction 10-310.
2. Responsibilities. NWSI 10-302 lists WFO areas of responsibility for coastal waters products. In addition, WSOs Yakutat, Valdez, and Kodiak prepare an adaptive coastal waters forecast (CWF) for their local marine area based on the CWF issued by the WFO for their marine zone. (See Alaska Region Supplement XX to 10-302.)
3. Coastal Waters Forecasts (CWF) - Contents and Procedures.
  - 3.1. CWF - Product Issuance. Forecast offices in Alaska issue CWFs in a combination narrative/period format. The Mass News Dissemination header for CWF products in Alaska is “MARINE FORECAST FOR [DESCRIPTION OF FORECAST AREA].”

All CWF products include the forecast periods shown below. Use the day of the week to describe forecast periods instead of terms like “today,” “tonight,” etc. Example: for a change expected Wednesday night in a forecast issued Wednesday afternoon, use “Wednesday night,” not “tonight.”

The early morning forecasts will cover:

Forecast - Day 1	4 AM to 6 AM the following day (26 hours)
Outlook - Day 2	6 AM to 6 AM the following day (24 hours)
Extended Forecast -	
Day 3	6 AM to Midnight (18 hours)
Day 4	Midnight to Midnight (24 hours)
Day 5	Midnight to Midnight (24 hours)

The late afternoon forecasts will cover:

Forecast - Day 1	4 PM to 6 PM the following day (26 hours)
Outlook - Day 2	6 PM to 6 PM the following day (24 hours)
Extended Forecast -	
Day 2 Evening	6 PM to Midnight (6 hours)
Day 3	Midnight to Midnight (24 hours)
Day 4	Midnight to Midnight (24 hours)
Day 5	Midnight to Midnight (24 hours)

3.2 CWF - Content/Format. CWFs in Alaska will follow the format given below.

MARINE FORECAST FOR (AREA COVERED BY THIS FORECAST)  
 NATIONAL WEATHER SERVICE (CITY) (STATE)  
 (VALID TIME) AM/PM (LOCAL TIME ZONE) (DAY) (DATE)  
 FORECAST VALID TO (TIME) AM/PM AND OUTLOOK TO (TIME) AM/PM.

BOILER PLATE STATEMENT.

(SYNOPSIS UGC CODE)-(EXPIRATION TIME)-  
 SYNOPSIS. (TEXT)

(AREAL UGC CODES[S])-(EXPIRATION TIME)-  
 (MARINE AREA[S])  
 (VALID TIME) AM/PM (LOCAL TIME ZONE) (DAY) (DATE)

(HEADLINE - if needed)  
 (FORECAST CONDITIONS FOR DAY 1). OUTLOOK (OUTLOOK CONDITIONS FOR  
 DAY 2).

EXTENDED FORECAST (*Optional, in lieu of one Extended Forecast for combined areas*)  
 .(DAY 3)...  
 .(DAY 4)...  
 .(DAY 5)...

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(EXTENDED UGC CODE)-(EXPIRATION TIME)-  
EXTENDED FORECAST FOR (FORECAST AREA)  
.(DAY 3)...  
.(DAY 4)...  
.(DAY 5)...

THE NEXT SCHEDULED FORECAST WILL BE ISSUED AT (TIME) AM/PM (LOCAL  
TIME ZONE) (DAY).

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3.2.1 Synopsis. A complete synopsis will be included in each CWF product. The synopsis covers the major weather features affecting the forecast area for the 50-hour period encompassing both the forecast period and the outlook period. The synopsis is broadcast over the marine radio; therefore, the text will focus on features directly affecting the areas covered in the product and include complete and grammatically correct sentences.

All synopses will be meteorologically consistent with other products issued by the WFO. Features included in synopses are those agreed to through coordination among the WFOs.

The locations of these features are specified by using direction (8-point compass headings) and distance in nautical miles (nm) from well-known landmarks. Latitude/longitude coordinates will not be used. If a feature is more than 500 nm from land, use a general location, e.g., "A LOW IN THE NORTH CENTRAL PACIFIC."

When ash fall from a volcanic eruption is expected to affect marine areas, a brief statement will be included in the synopsis. For example: "WESTDAHL VOLCANO, 70 NM SOUTHWEST OF COLD BAY, IS CURRENTLY ACTIVE."

3.2.2 Headlines. Headlines will be included at the beginning of each marine segment to emphasize significant marine weather hazards and to denote sustained wind categories that apply to the Day 1 forecast period. Headlines do not contain a temporal component (i.e., GALE WARNING THROUGH TONIGHT) since only those hazards which are expected to affect the first forecast day should be headlined. Headlines may contain an areal component if the marine area is being subdivided within the text, and the hazard only applies to a portion of the marine area.

The headline(s) will be inserted into the forecast for each marine area following the format below. Note: Ellipses (...) are not used as in the public forecast products.

AREA 3C. SHELIKOF STRAIT.  
HURRICANE FORCE WIND WARNING.  
(TEXT...)

In addition to the headlines listed in NWSI 10-310, Alaska Region offices will headline for two additional advisory types:

Brisk Wind Advisory – Issued instead of a Small Craft Advisory when the concentration of sea ice is 7/10 or more (for more sea ice guidelines, refer to Section 3.3.2). Headlines for Gale, Storm, and Hurricane Force Wind Warnings will be included regardless of sea ice concentrations.

Ashfall Advisory – Issued whenever an aviation SIGMET is in effect within a corresponding marine area. The advisory headline will be removed when ash is no longer considered to be a threat to surface conditions or the related SIGMET is cancelled.

Headlines for Coastal Flooding should not be included in Alaska Region CWFs.

Headlined warning statements, such as “HEAVY FREEZING SPRAY WARNING,” do not have to be repeated in the body of the text portion.

**3.2.3 Day 1 through Day 2 Forecast Period.** The Day 1 through Day 2 period of the coastal waters forecast follows a narrative format that emphasizes trends and changes. Example: “SOUTHWEST WINDS 25 KT DIMINISHING TO NORTHWEST 20 KT TUE EVENING. SEAS 7 FT SUBSIDING TUE EVENING.”

The first 26 hours of the forecast are the most detailed and will highlight the most critical conditions. Include the following elements: wind, sea state, significant weather, and icing. To keep forecasts concise, a maximum of two wind conditions (a condition contains both direction and speed) should be forecast in the 26-hour narrative forecast period.

The 24-hour outlook contains a forecast of wind and sea state only. A single term indicating the trend may be included in the outlook. Example: “WIND INCREASING TO SOUTHWEST 40 KT. SEAS BUILDING TO 16 FT.”

**3.2.4 3-5 Day Forecast Periods.** An extended forecast section covering days 3, 4 and 5 is given in each CWF product.

The extended forecast section follows the period format. Predominant wind speed and direction will be given for each forecast period within the extended forecast. The wind speed category (gale, storm, hurricane force) will be given when applicable and may be used in lieu of the speed for simplicity, e.g., “SOUTHEAST GALE.” The forecaster may combine periods if, in the forecaster’s opinion, the wind conditions in each are consistent. When forecasting lighter wind conditions, a trend forecast may be given in lieu of one specific wind speed and direction. Example: “.TUESDAY...VARIABLE MAINLY NORTHEAST WINDS LESS THAN 20 KT.”

Extended forecasts may be subdivided by area on an event driven basis as in the example below.

EXTENDED FORECAST FOR BRISTOL BAY AND ALASKA PENINSULA  
WATERS VALID SUN JAN 4 THROUGH TUE JAN 7.

BRISTOL BAY

.SUN...SOUTHEAST WIND 25 KT.

.MON AND TUE...GALE. NORTHWEST WIND 35 KT.

ALASKA PENINSULA WATERS

.SUN AND MON...SOUTHEAST WIND 30 KT.

.TUE...GALE. NORTHWEST WIND 45 KT.

Some WFOs provide an extended section within the individual marine area segments. This is encouraged in areas where wind conditions routinely vary significantly across the forecast area encompassed in the CWF. (See Appendix A, Section 1.2 for an example.)

3.2.5 Codes for the Marine Table. A forecast and warning summary table is sent on HF marine radio facsimile for the benefit of marine users. A 12- and 24-hour forecast summary should follow offshore and selected coastal marine forecasts. WFOs Fairbanks and Juneau send the entries for the table for their area of marine responsibility to WFO Anchorage. The summary includes the forecaster's best estimate of the predominant conditions that will occur within the forecast area at the summary valid time. The summary consists of the following items:

Warning – Include the warning type expected to be in effect at the valid time. Do not include volcanic ash. For Hurricane Force use "HURC," for Storm use "STM," for Gale use "GALE," for Small Craft Advisory use "SMCR," for Brisk Wind Advisory use "BRSK." If no warnings are expected, enter "NONE."

Wind – Predominant direction to 8 point compass; wind speed in knots. Use "V" for variable direction.

Seas – Significant wave height in feet; use only one value.

Weather – Predominant weather condition; a maximum of two weather types may be included. Authorized terms and their abbreviations are listed in 3.3.3 below. If no significant weather is expected, leave at least one blank space between the delimiters.

Icing – When icing is expected, use "ICING" or "HEAVY," corresponding to the marine forecast. If no icing is expected, use "NONE."

The summary format for Fairbanks and Juneau is:

Area #-period #-warning type-wind-seas-weather-icing  
Area #-period #-warning type-wind-seas-weather-icing

See Appendix A, Section 1.3 for a sample CWF with embedded marine table codes.

### 3.3 CWF - Text Forecast Parameters.

3.3.1 Winds. Wind forecasts represent the predominant sustained wind direction and speed for the forecast period. Ranges may be used in forecasting wind speed and direction in the extended forecast only. Forecast changes in wind direction should be for changes of 90 degrees or more, and forecast changes in wind speed should be for changes of 10 knots or more. Locally smaller wind speed and/or direction changes may be established for small marine areas, such as Resurrection Bay and Yakutat Bay, based upon expressed customer needs. The only speed transition terms to be used are “INCREASING” and “DECREASING.” Direction transition terms (“BECOMING,” “SHIFTING,” “SWITCHING,” etc.) should be used to add clarity to the forecast trends.

Under generally light wind conditions (less than 20 knots) the term “VARIABLE” may be used in lieu of a specific wind direction if a predominant direction can not be determined. The wind speed may be represented as “15 KT OR LESS” to describe generally light wind conditions.

When there are significant differences expected between sustained winds and gusts, the CWF should contain either a specific wind gust speed or a more generic phrase to describe the gusty condition of the winds, e.g., “WITH HIGHER GUSTS.” Similarly, when there are significant localized differences expected in the sustained wind field, the CWF should contain a specific wind forecast that addresses these differences, e.g., “WINDS TO 70 KT OUT OF INTERIOR BAYS AND PASSES.” Specificity is recommended; however, a generic phrase may also be used to describe these conditions when considerable uncertainty exists regarding the magnitude of the event, e.g., “WITH HIGHER WINDS OUT OF INTERIOR BAYS AND PASSES.” Gusts should not be forecast unless they are expected to be at least 15 knots greater than the sustained wind.

When there is sufficient open water (ice-free seas) to include a sea state forecast, Small Craft Advisories will be issued when appropriate. If sea heights are omitted due to ice coverage, the proper hazard type is Brisk Wind Advisory. (Refer to sections 3.2.2 and 3.3.2 for more information.)

3.3.2 Seas. Ranges will not be used to forecast the sea state. The only transition terms to be used are “BUILDING” and “SUBSIDING.” Forecast changes in sea state should be meaningful – at least 3 feet in outer coastal waters and at least 2 feet in sheltered bays and inlets. Trends may be used to express more subtle changes, e.g., “SEAS 4 FT SUBSIDING WED AFTERNOON.”

Sea state forecasts will be included for marine areas or portions of marine areas south or west of the ice edge. For other marine areas where a concentration of 7/10 or more of sea ice is expected, forecasts of sea state are usually omitted; however, if the area has at least 10% contiguous open water, sea state forecasts may be given.

Small craft advisories may be issued for sea state, even if the wind threshold is not met. Thresholds for a small craft advisory due to rough seas are locally defined based upon expressed customer needs. This sea state threshold should be no less than 8 feet.

3.3.3 Significant Weather/Visibility. Alaska Region offices use only the following weather terms and abbreviations:

Weather Term	Abbreviation
Rain	RAIN
Snow	SNOW
Rain and Snow	RASN
Freezing Rain	FZRA
Showers	SHWRS
Thunderstorms	TSTM
Fog	FOG
Squall	SQLL
Blowing Snow Over Ice-Covered Areas	BLSN

**Table 1** – Acceptable Weather Terms and Abbreviations to be Used in the Marine Table.

Modifiers of weather terms may be used if they describe intensity or temporal conditions significant to marine operations, e.g., “HEAVY (rain/snow),” “DENSE (fog),” etc. Terms such as “periods of” or “areas of” will not be used.

3.3.4. Icing. The Overland Nomograms will be used to forecast freezing spray in the Alaska Region. Use the nomogram that corresponds to the coldest sea surface temperature in the marine area. (<http://www.weather.nps.navy.mil/~psguest/polarmet/vessel/predict.html#nomogram>). The following thresholds will be used:

Freezing Spray – Ice accumulating at a rate less than 0.3 inches per hour (icing class “light”).

Heavy Freezing Spray – Ice accumulating at a rate greater than 0.3 inches per hour (icing class “moderate” or greater).

**APPENDIX A - Examples of Coastal NWS Alaska Forecasts**

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1. Coastal Waters Forecasts.

1.1 Example of a Coastal Waters Forecast without Separate Extended Forecasts for Individual Marine Segments

MARINE FORECAST FOR KODIAK ISLAND WATERS AND COOK INLET.  
NATIONAL WEATHER SERVICE ANCHORAGE AK  
400 AM ADT WED JUN 26 2002  
VALID TO 6 AM THU AND OUTLOOK TO 6 AM FRI.

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION  
EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST ONE-  
THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ301-270000-

SYNOPSIS. A 986 MB LOW 125 NM SOUTHEAST OF SEWARD WILL MOVE WEST AND  
DISSIPATE NEAR KING SALMON WED NIGHT.

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AREA 3. KODIAK ISLAND WATERS.

PKZ310-270000-

AREA 3A. BARREN ISLAND AND KAMISHAK BAY WATERS.

SMALL CRAFT ADVISORY

NORTHEAST WIND 25 KT DIMINISHING TO SOUTHEAST 15 KT WED

AFTERNOON. SEAS 10 FT SUBSIDING TO 5 FT WED EVENING. SHOWERS.

OUTLOOK SOUTHEAST WIND 15 KT. SEAS 5 FT.

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PKZ320-270000-

AREA 3B. SHUYAK ISLAND TO SITKINAK.

SMALL CRAFT ADVISORY

NORTHEAST WIND 25 KT DIMINISHING SOUTHWEST 15 KT WED AFTERNOON.

SEAS 10 FT SUBSIDING TO 5 FT WED AFTERNOON. SHOWERS. OUTLOOK

SOUTHEAST WIND 15 KT. SEAS 5 FT.

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PKZ330-270000-

AREA 3C. SHELIKOF STRAIT.

NORTHEAST WIND 20 KT DIMINISHING TO VARIABLE 10 KT WED AFTERNOON.

SEAS 5 FT SUBSIDING TO 2 FT WED AFTERNOON. SHOWERS. OUTLOOK

NORTHEAST WIND 15 KT. SEAS 5 FT.

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PKZ400-270000-

AREA 4. COOK INLET NORTH OF KAMISHAK BAY AND ENGLISH BAY.

NORTHEAST WIND 20 KT. SEAS 5 FT. SHOWERS. OUTLOOK NORTHEAST WIND 15

KT. SEAS 3 FT.

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PKZ410-270000-

AREA 4A. KACHEMAK BAY.

NORTHEAST WIND 15 KT. SEAS 3 FT. SHOWERS. OUTLOOK NORTHEAST WIND 15

KT. SEAS 3 FT.

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PKZ390-270000-

EXTENDED FORECAST FOR KODIAK ISLAND WATERS AND COOK INLET

.FRI... SOUTHWEST WINDS 15 KT.

.SAT AND SUN...EAST TO SOUTHEAST WINDS 25 KT.

THE NEXT SCHEDULED FORECAST WILL BE ISSUED AT 4 PM ADT WED.

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1.2 Example of a Coastal Waters Forecast with Separate Extended Forecasts for Individual Marine Segments

MARINE FORECAST FOR EASTERN GULF COAST AND SOUTHEAST AK

NATIONAL WEATHER SERVICE JUNEAU AK

400 PM ADT TUE MAY 14 2002

FORECAST VALID TO 6 PM WED AND OUTLOOK TO 6 PM THU.

DO NOT USE AFTER 4 AM.

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ100-151200-

SYNOPSIS. A LOW PRESSURE SYSTEM 100 NM EAST OF KODIAK ISLAND WILL CONTINUE TO MOVE EAST. THE ASSOCIATED WEATHER FRONT WILL SPREAD

OVER THE PANHANDLE WEDNESDAY. A SECOND FRONT WILL APPROACH  
SOUTHEAST ALASKA THURSDAY AFTERNOON.

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AREA 1A. SOUTHEAST ALASKA INSIDE WATERS DIXON ENTRANCE TO  
SKAGWAY

PKZ113-151200-

AREA 1A1. LYNN CANAL  
AND GLACIER BAY

SOUTH WINDS 20 KT. SEAS 4 FT. RAIN TUE NIGHT. OUTLOOK WINDS  
BECOMING NORTH WINDS 20 KT. SEAS 4 FT.

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PKZ114-151200-

AREA 1A2. ICY STRAIT  
AND CROSS SOUND

SMALL CRAFT ADVISORY

EAST WINDS 20 KT INCREASING TO 30 KT WED AFTERNOON. SEAS  
BUILDING TO 6 FT WED AFTERNOON. SHOWERS ENDING TUE EVENING. RAIN  
WED AFTERNOON. OUTLOOK EAST WINDS 30 KT. SEAS 6 FT.

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PKZ115-151200-

AREA 1A3. STEPHENS PASSAGE  
AND CHATHAM STRAIT  
AND FREDERICK SOUND

SOUTHEAST WINDS 20 KT BECOMING NORTHEAST 20 KT WED AFTERNOON.  
SEAS 4 FT. SHOWERS ENDING TUE EVENING. RAIN WED AFTERNOON.  
OUTLOOK NORTHEAST WINDS 25 KT. SEAS 5 FT.

SUMNER STRAIT

AND CLARENCE STRAIT

SMALL CRAFT ADVISORY

SOUTH WINDS 15 KT INCREASING TO SOUTHEAST 25 KT WED  
AFTERNOON. SEAS BUILDING TO 5 FT WED AFTERNOON. SHOWERS  
ENDING TUE EVENING. RAIN WED AFTERNOON. OUTLOOK EAST WINDS  
30 KT. SEAS 6 FT.

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PKZ190-151200-

EXTENDED FORECAST FOR SOUTHEAST ALASKA INSIDE WATERS DIXON  
ENTRANCE TO SKAGWAY  
FROM THU MAY 16 THROUGH SUN MAY 19

THU NIGHT AND FRI...GALE. SOUTH WINDS 35 KT.  
.SAT...GALE. SOUTH WINDS 35 TO 45 KT.  
.SUN....NORTHWEST TO NORTHEAST WINDS 25 KT.

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PKZ120-151200-

AREA 1B. SOUTHEAST ALASKA OUTSIDE WATERS  
DIXON ENTRANCE TO CAPE EDGE CUMBE  
GALE WARNING

SOUTHWEST WINDS 20 KT BECOMING SOUTHEAST TO 35 KT WED.  
SEAS 7 FT BUILDING TO 15 FT WED AFTERNOON. RAIN. OUTLOOK  
SOUTHEAST WINDS 35 KT. SEAS 15 FT.

CAPE EDGE CUMBE TO CAPE FAIRWEATHER

GALE WARNING

SOUTHWEST WINDS 20 KT INCREASING TO SOUTHEAST 35 KT WED  
AFTERNOON. SEAS 7 FT BUILDING TO 13 FT WED AFTERNOON. RAIN.  
OUTLOOK SOUTHEAST WINDS 35 KT. SEAS 13 FT.

EXTENDED FORECAST

.THU NIGHT AND FRI...GALE. SOUTHEAST WINDS 35 KT.  
.SAT...SOUTHWEST WINDS 20 TO 30 KT.  
.SUN...GALE. NORTHWEST WINDS 35 KT.

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PKZ210-151200-

AREA 2A. EASTERN GULF COAST  
CAPE FAIRWEATHER TO CAPE SUCKLING  
SMALL CRAFT ADVISORY

SOUTHEAST WINDS 20 KT INCREASING TO 25 KT WED AFTERNOON.  
SEAS 7 FT BUILDING TO 10 FT WED AFTERNOON. RAIN. OUTLOOK  
EAST WINDS 30 KT. SEAS 12 FT.

EXTENDED FORECAST

.THU NIGHT AND FRI...GALE. SOUTH WINDS 35 KT.  
.SAT...SOUTHWEST WINDS 20 TO 30 KT.  
.SUN....NORTHWEST WINDS 25 KT.

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THE NEXT SCHEDULED FORECAST WILL BE ISSUED AT 4 AM ADT WED.  
MAY 02

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1.3 Example of a Coastal Waters Forecast with the Coding for the Marine Table Included.

MARINE FORECAST FOR THE WESTERN AND ARCTIC ALASKAN COASTAL WATERS

NATIONAL WEATHER SERVICE FAIRBANKS AK

400 PM ADT THU JUN 27 2002

FORECAST VALID TO 6 PM FRI WITH THE OUTLOOK TO 6 PM SAT.

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ103-281200-

SYNOPSIS. A WEAK WEATHER FRONT WILL BECOME NEARLY STATIONARY ALONG A LINE FROM KOYUK TO ANADYR. ANOTHER WEAK WEATHER FRONT JUST OFF THE WESTERN ARCTIC COAST WILL MOVE SOUTH AND EAST TO LIE FROM BARTER ISLAND TO POINT LAY AND WESTWARD AT 4AM FRIDAY. IT WILL DISSIPATE LATER FRIDAY. A RIDGE OF HIGH PRESSURE WILL PERSIST OVER THE CENTRAL BERING SEA.

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PKZ140-281200-

AREA 14. SAINT MATTHEW ISLAND WATERS.

VARIABLE WINDS 10 KT. SEAS TO 4 FT.

OUTLOOK WEST WINDS TO 15 KT FRI NIGHT AND 20 KT SAT. SEAS TO 6 FT.

EXTENDED FORECAST

.SAT NIGHT THROUGH TUE...MAINLY WEST WINDS 20 KT OR LESS.

#14-1-NONE-V10-04- -NONE

#14-2-NONE-V10-04- -NONE

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PKZ091-281200-

AREA 9A. NORTON SOUND FROM SLEDGE ISLAND TO NUNAKTUK ISLAND.

VARIABLE WINDS 10 KT. SEAS TO 2 FT.

OUTLOOK WEST WINDS TO 15 KT. SEAS TO 4 FT.

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PKZ092-281200-

AREA 9B. DALL POINT TO WALES INCLUDING THE SAINT LAWRENCE ISLAND WATERS.

DALL POINT TO SLEDGE ISLAND.

VARIABLE WINDS 10 KT. SEAS TO 2 FT.

OUTLOOK NORTHWEST WINDS TO 15 KT. SEAS TO 4 FT.

SLEDGE ISLAND TO WALES INCLUDING THE SAINT LAWRENCE ISLAND WATERS.  
NORTH WINDS TO 15 KT...EXCEPT 20 KT NEAR THE BERING STRAIT. SEAS TO 4 FT.  
PATCHY FOG FRIDAY.

OUTLOOK NORTH WINDS 15 KT. SEAS TO 5 FT.

#9B-1-NONE-N15-04- -NONE

#9B-2-NONE-N15-04-FOG-NONE

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PKZ095-110000-

EXTENDED FORECAST FOR NORTON SOUND AND THE WESTERN ALASKA  
COASTAL WATERS FROM DALL POINT TO WALES

.SAT NIGHT THROUGH TUE...WIND 20 KT OR LESS.

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PKZ101-281200-

AREA 10A. KOTZEBUE SOUND.

WEST WINDS 15 KT BECOMING NORTHWEST THURSDAY EVENING. SEAS TO 3 FT.

RAIN TAPERING OFF THU EVENING.

OUTLOOK NORTHWEST WINDS TO 15 KT. SEAS TO 3 FT.

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PKZ102-281200-

AREA 10B. WALES TO CAPE LISBURNE.

NORTHWEST WINDS 15 KT BECOMING NORTH LATE THU NIGHT. SEAS 5 FT

SUBSIDING TO 3 FT. RAIN TAPERING OFF THU EVENING.

OUTLOOK NORTHWEST WINDS 15 KT. SEAS TO 5 FT.

#10B-1-NONE-N15-04- -NONE

#10B-2-NONE-N10-02- -NONE

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PKZ195-110000-

EXTENDED FORECAST FOR KOTZEBUE SOUND AND THE WESTERN ALASKA  
COASTAL WATERS FROM WALES TO CAPE LISBURNE

.SAT NIGHT THROUGH TUE...WIND 20 KT OR LESS.

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PKZ111-281200-

AREA 11A. CAPE LISBURNE TO CAPE HALKETT.

CAPE LISBURNE TO ICY CAPE.

NORTH WINDS TO 20 KT THU NIGHT. NORTHWEST WINDS 10 KT FRI. SEAS ICE

FREE AREAS TO 6 FT THU NIGHT SUBSIDING TO 3 FT FRI.

OUTLOOK SOUTHWEST WINDS TO 20 KT SAT. SEAS BUILDING TO 6 FT SAT.

ICY CAPE TO CAPE HALKETT.

NORTHEAST WINDS TO 15 KT BECOMING NORTH LATE THU NIGHT. SEAS ICE FREE AREAS TO 2 FT.

OUTLOOK WEST WINDS 10 KT FRI NIGHT. SOUTHWEST WINDS 15 KT SAT. SEAS TO 2 FT.

#11A-1-NONE-N20-06- -NONE

#11A-2-NONE-NW15-03- -NONE

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PKZ112-281200-

AREA 11B. CAPE HALKETT TO DEMARCATION POINT.

NORTHEAST WINDS TO 15 KT BECOMING NORTH LATE THURSDAY NIGHT. SEAS ICE FREE AREAS 2 FT. PATCHY FOG.

OUTLOOK VARIABLE WINDS 10 KT. SEAS ICE FREE AREAS TO 2 FT.

#11B-1-NONE-N15-02- -NONE

#11B-2-NONE-NE15-02- -NONE

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PKZ194-281200-

EXTENDED FORECAST FOR THE ARCTIC ALASKA COASTAL WATERS FROM CAPE LISBURNE TO DEMARCATION POINT

.SAT NIGHT...NORTH WINDS 20 KT.

.SUN AND MON...NORTHEAST WINDS LESS THAN 20 KT.

.TUE...NORTH WINDS 25 KT.

THE NEXT SCHEDULED MARINE FORECAST WILL BE ISSUED AT 4 AM ADT FRI.

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#### 1.4 Example of a WSO Adaptive Coastal Waters Forecast.

MARINE FORECAST FOR YAKUTAT BAY

NATIONAL WEATHER SERVICE YAKUTAT AK

400 AM ADT THU JUN 27 2002

VALID TO 6 AM FRI AND THE OUTLOOK TO 6 AM SAT

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ211-280100-

AREA 2A1 YAKUTAT BAY.

EAST WINDS TO 15 KT. SEAS TO 3 FT. RAIN THU MORNING.

OUTLOOK VARIABLE WINDS 10 KT. SEAS 2 FT.

PKZ291-280100-

EXTENDED FORECAST FOR YAKUTAT BAY VALID SAT NIGHT JUN 29 THROUGH  
TUE JUL 2

.SAT THROUGH MONDAY...VARIABLE WINDS 15 KT OR LESS.

THE NEXT SCHEDULED FORECAST WILL BE ISSUED AT 4 PM ADT THU.

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